

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 101573,794A
Source: IEWD
Date Processed by STIC: 3/5/07

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. **EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)**
2. **U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314**

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER:

10/573,794A

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2 Invalid Line Length The rules require that a line **not exceed 72 characters** in length. This includes white spaces.

3 Misaligned Amino Numbering The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.

4 Non-ASCII The submitted file was **not saved in ASCII(DOS) text**, as required by the Sequence Rules. Please ensure your subsequent submission is saved in **ASCII text**.

5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6 PatentIn 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**

7 Skipped Sequences (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for **each** skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped
 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8 Skipped Sequences (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for **each** skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000

9 Use of n's or Xaa's (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is **MANDATORY** if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10 Invalid <213> Response Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence

11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is **MANDATORY** if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

12 PatentIn 2.0 "bug" Please **do not** use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13 Misuse of n/Xaa "n" can **only** represent a single nucleotide; "Xaa" can **only** represent a single amino acid



IFWO

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/573,794A

DATE: 03/05/2007
TIME: 14:44:41

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\03052007\J573794A.raw

3 <110> APPLICANT: Japan Science and Technology Agency
5 <120> TITLE OF INVENTION: Royal Jelly Peptide
7 <130> FILE REFERENCE: 04F039PCT
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/573,794A
C--> 9 <141> CURRENT FILING DATE: 2006-03-28
9 <150> PRIOR APPLICATION NUMBER: JP 2003-338665
10 <151> PRIOR FILING DATE: 2003-09-29
12 <160> NUMBER OF SEQ ID NOS: 17
14 <170> SOFTWARE: PatentIn version 3.1
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 37
18 <212> TYPE: DNA
19 <213> ORGANISM: Artificial Sequence
21 <220> FEATURE:
22 <223> OTHER INFORMATION: Primer 1
24 <220> FEATURE:
25 <221> NAME/KEY: misc_feature
26 <222> LOCATION: (1)..(37)
27 <223> OTHER INFORMATION: i
30 <400> SEQUENCE: 1
W--> 31 aaracnwsna thwsngtnaa rggngarwsn aaygtng
34 <210> SEQ ID NO: 2
35 <211> LENGTH: 29
36 <212> TYPE: DNA
37 <213> ORGANISM: Artificial Sequence
39 <220> FEATURE:
40 <223> OTHER INFORMATION: Primer 2
42 <400> SEQUENCE: 2
43 cgttggcacc agacacgata gatgaaacc
46 <210> SEQ ID NO: 3
47 <211> LENGTH: 29
48 <212> TYPE: DNA
49 <213> ORGANISM: Artificial Sequence
51 <220> FEATURE:
52 <223> OTHER INFORMATION: Primer 3
54 <400> SEQUENCE: 3
55 ttcttgaatt ttattaatta ctttattcg
58 <210> SEQ ID NO: 4
59 <211> LENGTH: 50
60 <212> TYPE: DNA
61 <213> ORGANISM: Artificial Sequence
63 <220> FEATURE:
64 <223> OTHER INFORMATION: Fragment 1

37

Does Not Contain
Sequence in the Application
(pg. 13) C

✓ See item #11
on error²⁹ summary sheet

What is the source of
genetic material?

Invalid
Response

RAW SEQUENCE LISTING
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DATE: 03/05/2007
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Input Set : A:\Sequence Listing.txt
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66 <400> SEQUENCE: 4
67 aaaacctcta tctctgttaa aggcgaatcc aacgttgatg ttgtttccca
70 <210> SEQ ID NO: 5
71 <211> LENGTH: 40
72 <212> TYPE: DNA
73 <213> ORGANISM: Artificial Sequence
75 <220> FEATURE:
76 <223> OTHER INFORMATION: Fragment 2
78 <400> SEQUENCE: 5
79 gatcaactct ctggtttctt ctatcgtttc tggtgctaac 40
82 <210> SEQ ID NO: 6
83 <211> LENGTH: 40
84 <212> TYPE: DNA
85 <213> ORGANISM: Artificial Sequence
87 <220> FEATURE:
88 <223> OTHER INFORMATION: Fragment 3
90 <400> SEQUENCE: 6
91 gtttctgcag tactgctggc tcagactctg gttAACatcc 40
94 <210> SEQ ID NO: 7
95 <211> LENGTH: 38
96 <212> TYPE: DNA
97 <213> ORGANISM: Artificial Sequence
99 <220> FEATURE:
100 <223> OTHER INFORMATION: Fragment 4
102 <400> SEQUENCE: 7
103 tgcaGATCCT gatcgacgct aacgtttcg cttaatAG 38
106 <210> SEQ ID NO: 8
107 <211> LENGTH: 40
108 <212> TYPE: DNA
109 <213> ORGANISM: Artificial Sequence
111 <220> FEATURE:
112 <223> OTHER INFORMATION: Fragment 5
114 <400> SEQUENCE: 8
115 ttttggagat agagacaatt tccgctttagg ttgcaactac 40
118 <210> SEQ ID NO: 9
119 <211> LENGTH: 40
120 <212> TYPE: DNA
121 <213> ORGANISM: Artificial Sequence
123 <220> FEATURE:
124 <223> OTHER INFORMATION: Fragment 6
126 <400> SEQUENCE: 9
127 aacaaagggt ctatggaga gacAAAGAA gatAGCAAAG 40
130 <210> SEQ ID NO: 10
131 <211> LENGTH: 40
132 <212> TYPE: DNA
133 <213> ORGANISM: Artificial Sequence
135 <220> FEATURE:
136 <223> OTHER INFORMATION: Fragment 7
138 <400> SEQUENCE: 10

? See item # 11

on error summary
sheet
3/5/2007

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/573,794A

DATE: 03/05/2007
TIME: 14:44:41

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\03052007\J573794A.raw

139 accacgattg caaagacgtc atgacgaccg agtctgagac 40
 142 <210> SEQ ID NO: 11
 143 <211> LENGTH: 48
 144 <212> TYPE: DNA
 145 <213> ORGANISM: Artificial Sequence
 147 <220> FEATURE:
 148 <223> OTHER INFORMATION: Fragment 8
 150 <400> SEQUENCE: 11
 151 caattgttagg acgtcttagga ctagctgcga ttgcaaaagc gaattatc 48
 154 <210> SEQ ID NO: 12
 155 <211> LENGTH: 31
 156 <212> TYPE: DNA
 157 <213> ORGANISM: Artificial Sequence
 159 <220> FEATURE:
 160 <223> OTHER INFORMATION: LIC Forward
 162 <400> SEQUENCE: 12
 163 ggtattgagg gtcgcaaaac ctctatctct g 31
 166 <210> SEQ ID NO: 13
 167 <211> LENGTH: 33
 168 <212> TYPE: DNA
 169 <213> ORGANISM: Artificial Sequence
 171 <220> FEATURE:
 172 <223> OTHER INFORMATION: LIC Reverse
 174 <400> SEQUENCE: 13
 175 agaggagagt tagagcccta ttaagcgaaa acg 33
 178 <210> SEQ ID NO: 14
 179 <211> LENGTH: 162
 180 <212> TYPE: DNA
 181 <213> ORGANISM: bee
 183 <220> FEATURE:
 184 <221> NAME/KEY: misc_feature
 185 <222> LOCATION: (1)..(162)
 186 <223> OTHER INFORMATION: unknown
 189 <220> FEATURE:
 190 <221> NAME/KEY: CDS
 191 <222> LOCATION: (1)..(162)
 192 <223> OTHER INFORMATION:
 W--> 194 <400> 14
 195 aaa aca tca atc agt gtc aaa ggc gaa tcg aac gtg gat gtc gtt tcc 48
 196 Lys Thr Ser Ile Ser Val Lys Gly Glu Ser Asn Val Asp Val Val Ser
 197 1 5 10 15
 199 caa atc aac agt ttg gtt tca tct atc gtg tct ggt gcc aac gtg tca 96
 200 Gln Ile Asn Ser Leu Val Ser Ser Ile Val Ser Gly Ala Asn Val Ser
 201 20 25 30
 W--> 203 gca gta ctc cta gct caa act tta gtt aat atc ctg caa att nnn atc 144
 204 Ala Val Leu Leu Ala Gln Thr Leu Val Asn Ile Leu Gln Ile Xaa Ile
 205 35 40 45
 207 gac gct aat gtt ttc gct 162
 208 Asp Ala Asn Val Phe Ala

SAME errors

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/573,794A

DATE: 03/05/2007

TIME: 14:44:41

Input Set : A:\Sequence Listing.txt
 Output Set: N:\CRF4\03052007\J573794A.raw

209 50
 212 <210> SEQ ID NO: 15
 213 <211> LENGTH: 54
 214 <212> TYPE: PRT
 215 <213> ORGANISM: bee
 217 <220> FEATURE:
 218 <221> NAME/KEY: misc_feature
 219 <222> LOCATION: (47)..(47)
 220 <223> OTHER INFORMATION: The 'Xaa' at location 47 stands for Lys, Asn, Arg, Ser, Thr, Ile,
 221 Met, Xaa, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 222 Cys, or Phe.
 224 <400> SEQUENCE: 15
 226 Lys Thr Ser Ile Ser Val Lys Gly Glu Ser Asn Val Asp Val Val Ser
 227 1 5 10 15
 230 Gln Ile Asn Ser Leu Val Ser Ser Ile Val Ser Gly Ala Asn Val Ser
 231 20 25 30
 W--> 234 Ala Val Leu Leu Ala Gln Thr Leu Val Asn Ile Leu Gln Ile Xaa Ile
 235 35 40 45
 238 Asp Ala Asn Val Phe Ala
 239 50
 242 <210> SEQ ID NO: 16
 243 <211> LENGTH: 162
 244 <212> TYPE: DNA
 245 <213> ORGANISM: bee
 247 <220> FEATURE:
 248 <221> NAME/KEY: CDS
 249 <222> LOCATION: (1)..(162)
 250 <223> OTHER INFORMATION:
 W--> 252 <400> 16
 253 aaa aca tca atc agt gtc aaa ggc gaa tcg aac gtg gat gtc gtt tcc 48
 254 Lys Thr Ser Ile Ser Val Lys Gly Glu Ser Asn Val Asp Val Val Ser
 255 1 5 10 . 15
 257 caa atc aac agt ttg gtt tca tct atc gtg tct ggt gcc aac gtg tca 96
 258 Gln Ile Asn Ser Leu Val Ser Ser Ile Val Ser Gly Ala Asn Val Ser
 259 20 25 30
 261 gca gta ctc cta gct caa act tta gtt aat atc ctg caa att ctt atc 144
 262 Ala Val Leu Leu Ala Gln Thr Leu Val Asn Ile Leu Gln Ile Leu Ile
 263 35 40 45
 265 gac gct aat gtt ttc gct 162
 266 Asp Ala Asn Val Phe Ala
 267 50
 270 <210> SEQ ID NO: 17
 271 <211> LENGTH: 54
 272 <212> TYPE: PRT
 273 <213> ORGANISM: bee
 275 <400> SEQUENCE: 17
 277 Lys Thr Ser Ile Ser Val Lys Gly Glu Ser Asn Val Asp Val Val Ser
 278 1 5 10 15
 281 Gln Ile Asn Ser Leu Val Ser Ser Ile Val Ser Gly Ala Asn Val Ser

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/573,794A

DATE: 03/05/2007

TIME: 14:44:41

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\03052007\J573794A.raw

282	20	25	30
285	Ala Val Leu Leu Ala Gln Thr Leu Val Asn Ile Leu Gln Ile Leu Ile		
286	35	40	45
289	Asp Ala Asn Val Phe Ala		
290	50		

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 03/05/2007
PATENT APPLICATION: US/10/573,794A TIME: 14:44:42

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\03052007\J573794A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 6,9,15,18,24,30,36

Seq#:14; N Pos. 139,140,141

Seq#:14; Xaa Pos. 47

Seq#:15; Xaa Pos. 47

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/573,794A

DATE: 03/05/2007
TIME: 14:44:42

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\03052007\J573794A.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:31 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:194 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:14, Line#:192
L:203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:96
M:341 Repeated in SeqNo=14
L:234 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:32
L:252 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:16, Line#:250